Контроллер SL-IR44B (12/24V, 108/216W, ПДУ 44кн)

Introduction

SL-IR44B controller is a smart RGB three colors light controller dedicated to long-illumination LED light, using the most advanced PWM (Pulse Width Modulation) digital control technology, the controller can be operated through IR wireless remote controller. The installation of LED controller can apply to commercial or home lighting on different occasion with different environment, extend the LED life span, and save energy; LED RGB lights can use this controller to decolorize.

Technology specifications

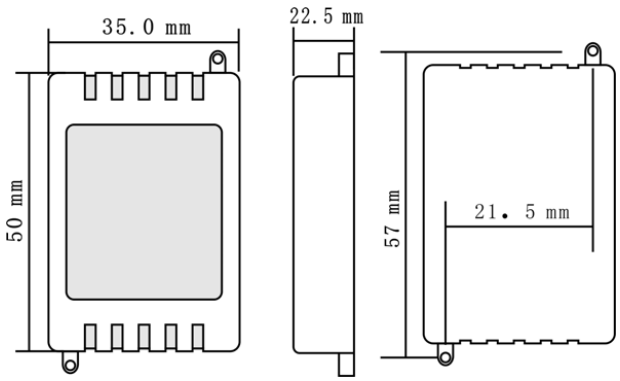
- Input power DC12V~24V
- Output signal 3-way RGB signal
- Max load current 2A*3
- Output power 108W(12V)/216W(24V)
- Controller dimension 77*64*24(mm)
- Remote dimension L62×W35× H22 (mm)
- Packaging dimension L125×W57×7(mm)

Functions

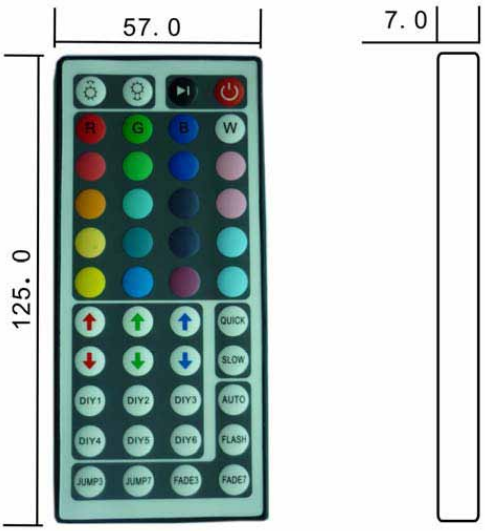
1. RGB full colors LED strip controller.
2. Control way: IR remote control, it is available in 8-meter (No barriers).
3. Display:20 static, 3 colors jump change, 7 colors jump change, 3 colors gradual change, 7 colors gradual change and user defined colors.
4. Speed of dynamic can adjust; Brightness of static can adjust.
5. Having memory when power fails.
6. RGB three channels signal (Common anode).

Structure

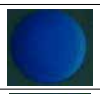
- **View of major controller**



- **View of remote controller**



Descriptions for panel and remote controller keys

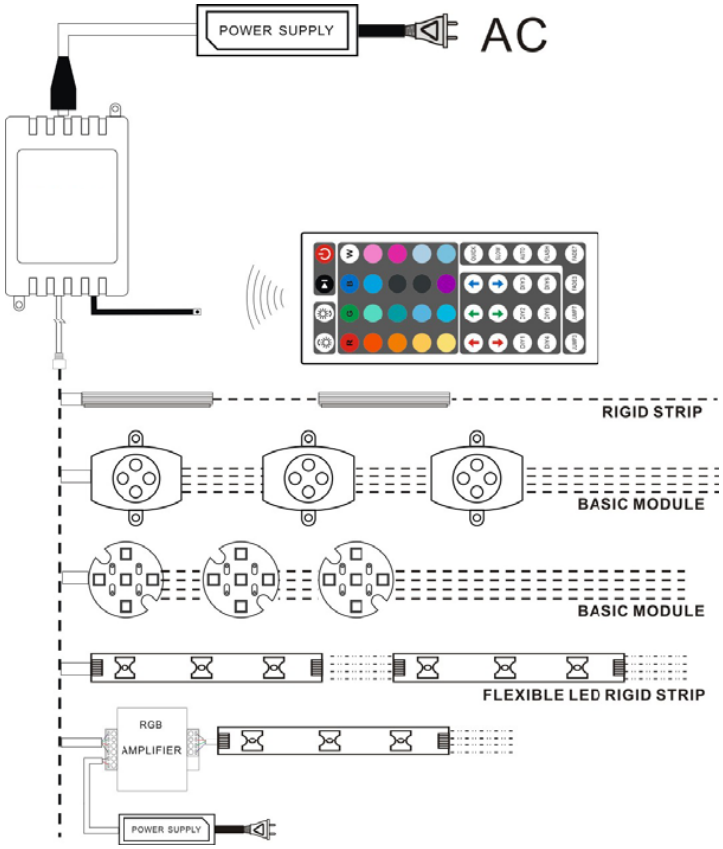
	Light up(8 levels)		Light down(8 levels)		Pause/run		On/Off
	Static red		Static green		Static blue		Static white
	Static orange		Static light green		Static deep blue		Milk white
	Static deep yellow		Static cyan		Static blue-pulple		Pink white
	Static yellow		Static light blue		Static purple		Green white
	Static light yellow		Static sky blue		Static brown		Blue white
	Add red light		Add green light		Add blue light		Speed up
	Reduce red light		Reduce green light		Reduce blue light		Speed down
	User defined color 1		User defined color 2		User defined color 3		Auto color change
	User defined color 4		User defined color 5		User defined color 6		Fast change
	3-color jump change		7-color jump change		3-color gradual change		7-color gradual change

Additional remarks:
When users define colors, press custom key to enter the modes, then press red, blue, green add/reduce these 6 keys to mix colors.(Press any key out of the custom area to quit the custom modes, if not, the keys are unavailable). When presses the custom key the second time, the current color will be saved, if press next time, will show the latest color saved.
Totally 6 custom keys, so can set up 6 kinds colors arbitrarily. The keys are separately and will not interact, for example, press the custom key 1 once, and then custom key 2, the custom key 1 is invalid, only when press the custom key 2 again, current color can be saved.

Dynamic modes' description

Mode	Description
3-color jump change	Three colors jump change: red->green->blue
7-color jump change	Seven colors jump change: red->green->blue->yellow->cyan->purple->white
3-color gradual change	Three colors gradual change: red->green->blue
7-color gradual change	Seven colors gradual change: red->green->blue->yellow->cyan->purple->white

Connection diagram of controller



Failure analysis and solutions

Failure	Analysis	Solutions
No light	1. No power. 2. Reversed the polarity. 3. Wrong connection or poor contact.	1. Check the power 2. Make sure the polarity is right. 3. Re-check the wire connection.
Brightness of LED is not consistent	1. Input wire is too long to cause wire loss. 2. Diameter of wire is too thin to cause wire loss. 3. Power overload. 4. Controller overload.	1. Shorten wire or use loop circuit. 2. Calculate the current, and then replace thick wire. 3. Replace larger power. 4. Add a power amplifier

Tips: *The effective power is generally only 80% of the marked power, so it is recommended in selecting the power supply, the user choose a slightly larger one than the LED load power, at least for more than 20%!*

Packaging

Controller	L62*W35*L22(mm)	1 PCS
IR remote control	L125×W57×L7(mm)	1 PCS
User manual	A6 sheet	1 PCS

Instructions for safety

Making sure you use the product perfectly and safely, please observe the instructions and warning on this manual. Operate cautiously and read these instructions carefully.

1. For installation, try to avoid the minefields, strong magnetic field and high-pressure area.
2. Ensure that the wire is connected correctly and firmly in order to avoid short-circuit damage to parts and posing a fire hazard.
3. Please install controller in a well-ventilated place to ensure that the ambient temperature is moderate.
4. Before using this product, please check the DC power and voltage meet the product technical requirements; positive and negative polarity is defined consistent to the product.
5. Prohibit live wiring, check to confirm wiring is correct, if no short-circuit, then power!
6. If any problems do not make unauthorized repairs. Any doubts please contact your local supplier.